

Please delete the present Abstract of the Disclosure.

Please add the following new Abstract of the Disclosure:

Disclosed are an electric energy storage device having a good cycle characteristic and a temperature characteristic and a method of charging and discharging the electric energy storage device. The electric energy storage device including a capacitor and a secondary battery combined in series is provided. When the capacitor of the electric energy storage device is an electric double layer capacitor, the capacitor is used to the voltage of 0V or less to increase an available energy usage.